## AP3 Rec'd PCT/PTO 2 6 MAY 2003

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Approved for use through 3/31/2007. OMB 0651-0021
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## TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER 4240-142

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/KR04/01210 5/20/2004 11/27/2003 TITLE OF INVENTION NOVEL RUMEN BACTERIA VARIANTS AND PROCESS FOR PREPARING SUCCINIC ACID EMPLOYING THE SAME APPLICANT(S) FOR DO/EO/US Sang Yup Lee, Sang Jun Lee Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. X This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). 5. X A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). 6. X An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). a. X is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. X An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. X An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. X A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. X A power of attorney and/or change of address letter. 17. X A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491–1.492. The Information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. INTERNATIONAL APPLICATION NO. ATTORNEY'S DOCKET NUMBER U.S. APPLICATION, NO (if known 37 CER 1.5) PCT/KR04/01210 4240-142 Other items or information: 20. CALCULATIONS PTO USE ONLY The following fees have been submitted \$300 l x \$300 21. Examination fee (37 CFR 1.492(c)) \$ 200 X 22 If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of the PCT PCT Article 33(1)-(4) ... \$0 \$200 Search fee (37 CFR 1.492(b)) 500 If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of the PCT Article 33(1)-(4)...... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an \$100 previously communicated to the US by the IB..... \$400 \$500 TOTAL OF 21, 22 and 23 = \$ 1000 Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing IN COMPLIANCE WITH 37 cfr 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)) The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Number of each additional 50 or fraction RATE **Total Sheets** Extra sheets thereof (round up to a whole number) /50 =\$250 \$ 0 61 -100 =0 0 x Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the \$ 0 date of the commencement of the national stage (37 CFR 1.492(h)). CLAIMS NUMBER FILED NUMBER EXTRA RATE \$ Total claims 35 - 20 = Х \$50 \$ 750 Independent claims X \$200 \$1600 11 - 3 = 8 MULTIPLE DEPENDENT CLAIM(S) (if applicable) \$360 \$ 0 \$3350 TOTAL OF ABOVE CALCULATIONS = Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. \$1675 SUBTOTAL \$1675 Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed \$ 0 priority date (37 CFR 1.492(i)). TOTAL NATIONAL FEE = \$1675 Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an \$ 40 appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property **TOTAL FEES ENCLOSED** \$1715 Amount to be refunded: Amount to be \$1715.00 charged:



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U.S. Patent and Trademark Office; U.S. DEPARTMNT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. A check in the amount of \$ to cover the above Please charge my Deposit Account No. b. A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>08-3284</u>. A duplicate copy of this sheet is enclosed. X Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: INTELLECTUAL PROPERTY/TECHNOLOGY LAW P.O. Box 14329 SIGNATURE: Research Triangle Park, NC 27709-4329 Steven J. Hultquist NAME 28,021 REGISTRATION NUMBER

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re United State	s Patent Application of:	) Docket No.:	4240-142
Applicants:	LEE, Sang Yup, et al.	) )	
Application No.:	New U.S. National Stage Application of PCT International Application No. PCT/KR2004/01210	) ) ) )	
Date Filed:	26 May 2006	) )	
Priority Date:	27 November 2003 (Korean Patent Application No. 10-2003- 0084934)	) ) ) )	
Title:	NOVEL RUMEN BACTERIA VARIANTS AND PROCESS FOR PREPARING SUCCINIC ACID EMPLOYING THE SAME	Customer No.: ) ) ) ) ) )	23448
	I hereby certify that I am mailing the attached documents to the Commissioner for Patents on the date specified, in an envelope addressed to Mail Stop: PCT, Commissioner for Patents, P.O. Box 1450, Alexandra, VA 22313-1450 and Express Mailed under the provisions of 37 CFR 19.  Candace White  May 26, 2006  Date  EO 009 309 148 US  Express Mail Label Number		

SUBMISSION OF NEW U.S. NATIONAL PHASE PATENT APPLICATION BASED ON INTERNATIONAL PATENT APPLICATION NO. PCT/KR2004/01210)

Mail Stop: PCT

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

**20**/580556 4240-142 1**AP2**0 **R6C'd PCT/PTO** 26 MAY 2006

Sir:

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Submitted herewith for filing under the provisions of 37 CFR §1.53 and 35 U.S.C. §371 is the above-referenced patent application, based on International Patent Application No. PCT/KR2004/01210 and claiming priority of Korean Patent Application No. 10-2003-0084934. A copy of the PCT International application as originally filed is included herewith. Further included is a return postcard, an Information Disclosure Statement and 14 cited references, an executed Assignment document and Assignment Recordation Cover Sheet, an executed Declaration and Power of Attorney document, a sequence listing and diskette, a Preliminary Amendment, a Credit Card Form authorizing payment in the amount of \$ 1715.00 and a 35 U.S.C. §371 transmittal form.

Please direct correspondence relating to this application to Steven J. Hultquist, Intellectual Property Technology Law, P.O. Box 14329, Research Triangle Park, NC 27709, and direct telephonic communications relating to this application to Steven J. Hultquist at (919) 419-9350.

Respectfully submitted,

Steven J. Hultquist Reg. No. 28,021

Attorney for Applicants

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